



Limitations

Not suitable for SIP steam process.

Respect work pressure established values.

Mind the chemical compatibility of the fluid with the polyurethane.

Regulations

Food quality polyurethane

- US FDA Standard 21 CFR 177.1680 and CFR 177.2600.
- According to Regulation 1935/2004/EC and 10/2011/ECC.

Polyurethane used is in accordance with EU Directive 2002/95/ECC for Restriction of the use of hazardous substances (RoHS)

Applications

This product is especially recommended for suction and transport of food and pharmaceutical industries. It is generally acceptable for pneumatic transport of flammable and non-flammable bulk materials and suction of all types of abrasive particles. It is also recommended for the chemical industry.

Properties

- Odorless, tasteless and completely non-toxic.
- High flexibility and highly abrasion resistant.
- BPA (Bisphenol-A) and Phthalates free.
- Smooth and transparent polyurethane hose, made with special polyurethane without carbon black or other additives.
- Operational temperature range from -20°C (-4 °F) to +80°C (176 °F), it may reach up to +100°C (212 °F) during short periods of time.
- Can be equipped with 316L stainless steel fittings on each end with a roughness value of less than 0.8 µm (or 0.5 µm on request).

Construction

This reference is manufactured with one layer of polyurethane sheet and steel covered with PVC wire spring encased inside the hose.

Alternatives:

Technipur VAC FDA SS: Stainless steel instead of steel covered with PVC.

Technipur VAC FDA-X: recommended when a low electrical surface resistivity is required.

Technical Specifications

Inner Diameter		Wall Thickness		Working Pressure ISO 1402/2009		Bursting Pressure ISO 1402/2009		Vacuum Resistance ISO 7233/2006		Bending Radius ISO 1746/2000	
<i>mm</i>	<i>inch</i>	<i>+0.04/ -0.02 mm</i>	<i>+1.57x10⁻³/ -7.87x10⁻⁴ inch</i>	<i>Bar at 20°C</i>	<i>Psi at 68 F</i>	<i>Bar at 20°C</i>	<i>Psi at 68 F</i>	<i>Bar at 20°C</i>	<i>Psi at 68 F</i>	<i>mm</i>	<i>inch</i>
40	1.57	1.20	0.05	2.6	37.70	7.80	113.10	0.76	11.02	70	0.23
45	1.77	1.20	0.05	2.3	33.35	6.90	100.05	0.68	9.86	78	0.26
50	1.97	1.20	0.05	2.07	30.02	6.21	90.05	0.61	8.85	85	0.28
55	2.17	1.20	0.05	1.87	27.12	5.61	81.35	0.55	7.98	93	0.31
60	2.36	1.20	0.05	1.71	24.80	5.13	74.39	0.51	7.40	100	0.33
65	2.56	1.20	0.05	1.58	22.91	4.74	68.73	0.47	6.82	108	0.35
70	2.76	1.20	0.05	1.46	21.17	4.38	63.51	0.43	6.24	115	0.38
75	2.95	1.20	0.05	1.36	19.72	4.08	59.16	0.4	5.80	123	0.40
80	3.15	1.20	0.05	1.28	18.56	3.84	55.68	0.38	5.51	130	0.43
85	3.35	1.20	0.05	1.2	17.40	3.60	52.20	0.36	5.22	138	0.45
90	3.54	1.20	0.05	1.13	16.39	3.39	49.16	0.34	4.93	145	0.48
95	3.74	1.20	0.05	1.07	15.52	3.21	46.55	0.32	4.64	153	0.50
100	3.94	1.20	0.05	1.01	14.65	3.03	43.94	0.3	4.35	160	0.52
105	4.13	1.20	0.05	0.96	13.92	2.88	41.76	0.29	4.21	168	0.55
110	4.33	1.20	0.05	0.92	13.34	2.76	40.02	0.27	3.92	175	0.57
115	4.53	1.20	0.05	0.88	12.76	2.64	38.28	0.26	3.77	183	0.60
120	4.72	1.20	0.05	0.84	12.18	2.52	36.54	0.25	3.63	190	0.62
125	4.92	1.20	0.05	0.81	11.75	2.43	35.24	0.24	3.48	198	0.65
130	5.12	1.20	0.05	0.77	11.17	2.31	33.50	0.23	3.34	205	0.67
135	5.31	1.20	0.05	0.75	10.88	2.25	32.63	0.22	3.19	213	0.70
140	5.51	1.20	0.05	0.72	10.44	2.16	31.32	0.22	3.19	220	0.72
145	5.71	1.20	0.05	0.69	10.01	2.07	30.02	0.21	3.05	228	0.75
150	5.91	1.20	0.05	0.67	9.72	2.01	29.15	0.2	2.90	235	0.77
155	6.10	1.20	0.05	0.65	9.43	1.95	28.28	0.19	2.76	243	0.80
160	6.30	1.20	0.05	0.63	9.14	1.89	27.41	0.19	2.76	250	0.82
165	6.50	1.20	0.05	0.61	8.85	1.83	26.54	0.18	2.61	258	0.85
170	6.69	1.20	0.05	0.59	8.56	1.77	25.67	0.18	2.61	265	0.87
175	6.89	1.20	0.05	0.57	8.27	1.71	24.80	0.17	2.47	273	0.90
180	7.09	1.20	0.05	0.55	7.98	1.65	23.93	0.17	2.47	280	0.92
185	7.28	1.20	0.05	0.54	7.83	1.62	23.49	0.16	2.32	288	0.94
190	7.48	1.20	0.05	0.52	7.54	1.56	22.62	0.16	2.32	295	0.97
195	7.68	1.20	0.05	0.51	7.40	1.53	22.19	0.15	2.18	303	0.99
200	7.87	1.20	0.05	0.5	7.25	1.50	21.75	0.15	2.18	310	1.02
205	8.07	1.20	0.05	0.49	7.11	1.47	21.32	0.15	2.18	318	1.04
210	8.27	1.20	0.05	0.47	6.82	1.41	20.45	0.14	2.03	325	1.07
215	8.46	1.20	0.05	0.46	6.67	1.38	20.01	0.14	2.03	333	1.09
220	8.66	1.20	0.05	0.45	6.53	1.35	19.58	0.14	2.03	340	1.12
225	8.86	1.20	0.05	0.44	6.38	1.32	19.14	0.13	1.89	348	1.14
230	9.06	1.20	0.05	0.43	6.24	1.29	18.71	0.13	1.89	355	1.16

Technical Datasheet

VENA TECHNIPUR® VAC FDA

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Inner Diameter		Wall Thickness		Working Pressure ISO 1402/2009		Bursting Pressure ISO 1402/2009		Vacuum Resistance ISO 7233/2006		Bending Radius ISO 1746/2000	
<i>mm</i>	<i>inch</i>	<i>+0.04/ -0.02 mm</i>	<i>+1.57x10⁻³/ -7.87x10⁻⁴ inch</i>	<i>Bar at 20°C</i>	<i>Psi at 68 F</i>	<i>Bar at 20°C</i>	<i>Psi at 68 F</i>	<i>Bar at 20°C</i>	<i>Psi at 68 F</i>	<i>mm</i>	<i>inch</i>
235	9.25	1.20	0.05	0.42	6.09	1.26	18.27	0.13	1.89	363	1.19
240	9.45	1.20	0.05	0.41	5.95	1.23	17.84	0.13	1.89	370	1.21
245	9.65	1.20	0.05	0.4	5.80	1.20	17.40	0.12	1.74	378	1.24
250	9.84	1.20	0.05	0.4	5.80	1.20	17.40	0.12	1.74	385	1.26
255	10.04	1.20	0.05	0.39	5.66	1.17	16.97	0.12	1.74	393	1.29
260	10.24	1.20	0.05	0.38	5.51	1.14	16.53	0.12	1.74	400	1.31
265	10.43	1.20	0.05	0.37	5.37	1.11	16.10	0.11	1.60	408	1.34
270	10.63	1.20	0.05	0.37	5.37	1.11	16.10	0.11	1.60	415	1.36
275	10.83	1.20	0.05	0.36	5.22	1.08	15.66	0.11	1.60	423	1.39
280	11.02	1.20	0.05	0.35	5.08	1.05	15.23	0.11	1.60	430	1.41
285	11.22	1.20	0.05	0.35	5.08	1.05	15.23	0.11	1.60	438	1.44
290	11.42	1.20	0.05	0.34	4.93	1.02	14.79	0.1	1.45	445	1.46
295	11.61	1.20	0.05	0.33	4.79	0.99	14.36	0.1	1.45	453	1.49
300	11.81	1.20	0.05	0.33	4.79	0.99	14.36	0.1	1.45	460	1.51
305	12.01	1.20	0.05	0.32	4.64	0.96	13.92	0.1	1.45	468	1.54
310	12.20	1.20	0.05	0.32	4.64	0.96	13.92	0.1	1.45	475	1.56
315	12.40	1.20	0.05	0.31	4.50	0.93	13.49	0.1	1.45	483	1.58
320	12.60	1.20	0.05	0.31	4.50	0.93	13.49	0.09	1.31	490	1.61
325	12.80	1.20	0.05	0.3	4.35	0.90	13.05	0.09	1.31	498	1.63
330	12.99	1.20	0.05	0.3	4.35	0.90	13.05	0.09	1.31	505	1.66
335	13.19	1.20	0.05	0.29	4.21	0.87	12.62	0.09	1.31	513	1.68
340	13.39	1.20	0.05	0.29	4.21	0.87	12.62	0.09	1.31	520	1.71
345	13.58	1.20	0.05	0.28	4.06	0.84	12.18	0.09	1.31	528	1.73
350	13.78	1.20	0.05	0.28	4.06	0.84	12.18	0.09	1.31	535	1.75
355	13.98	1.20	0.05	0.28	4.06	0.84	12.18	0.08	1.16	543	1.78
360	14.17	1.20	0.05	0.27	3.92	0.81	11.75	0.08	1.16	550	1.80
365	14.37	1.20	0.05	0.27	3.92	0.81	11.75	0.08	1.16	558	1.83
370	14.57	1.20	0.05	0.26	3.77	0.78	11.31	0.08	1.16	565	1.85
375	14.76	1.20	0.05	0.26	3.77	0.78	11.31	0.08	1.16	573	1.88
380	14.96	1.20	0.05	0.26	3.77	0.78	11.31	0.08	1.16	580	1.90
385	15.16	1.20	0.05	0.25	3.63	0.75	10.88	0.08	1.16	588	1.93
390	15.35	1.20	0.05	0.25	3.63	0.75	10.88	0.08	1.16	595	1.95
395	15.55	1.20	0.05	0.25	3.63	0.75	10.88	0.08	1.16	603	1.98
400	15.75	1.20	0.05	0.24	3.48	0.72	10.44	0.07	1.02	610	2.00
410	16.14	1.20	0.05	0.24	3.48	0.72	10.44	0.07	1.02	625	2.05
420	16.54	1.20	0.05	0.23	3.34	0.69	10.01	0.07	1.02	640	2.10
430	16.93	1.20	0.05	0.23	3.34	0.69	10.01	0.07	1.02	655	2.15
440	17.32	1.20	0.05	0.22	3.19	0.66	9.57	0.07	1.02	670	2.20
450	17.72	1.20	0.05	0.22	3.19	0.66	9.57	0.07	1.02	685	2.25